

ABSTRACT

5 A controller for a synchronous DRAM is provided for maximizing throughput of memory requests to the synchronous DRAM. The controller maintains the spacing between the commands to conform with the specifications for the synchronous DRAMs while preventing gaps from occurring in the data slots to the synchronous DRAM. Furthermore, the controller allows memory requests and commands to be issued out of order so that the throughput may be maximized by overlapping required operations which do not specifically involve data transfer.

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